



ARCHGARD

FIREPLACE PRODUCTS



27-DVIM22

GAS FIRED VENTED ROOM HEATER (DIRECT VENT)

S/N 260000 AND UP

USERS' INSTALLATION OPERATION AND MAINTENANCE MANUAL

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:

- * Do not try to light any appliance.
- * Do not touch any electrical switch; do not use any phone in your building.
- * Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- * If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

This appliance may be installed in an aftermarket permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

*Conversion kit required for Propane use



WARNING



HOT GLASS WILL
CAUSE BURNS

DO NOT TOUCH GLASS
UNTIL COOLED

NEVER ALLOW CHILDREN
TO TOUCH GLASS

Tested and
listed by



We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

ARCHGARD
LIFETIME LIMITED WARRANTY

7116 Beatty Dr
Mission, BC V2V 6B4
Canada

LABTEST Certification Inc
Richmond, British Columbia
ANSI Z21.88-2009/CSA 2.33-2009

200-1227
MAY 2014

INTRODUCTION

Congratulations on choosing an Archgard Gas Fireplace!

The 27-DVIM22 is one of the most advanced Direct Vent Insert heaters available today. It is solidly designed using the latest technology and manufactured to the highest quality. It is our aim to provide you with an appliance for many trouble-free years of reliable service.

Some of the many features of your 27-DVIM22 are:

- Heater Classification The 27-DVIM22 is classified as a heating appliance. Therefore, it uses Direct Vent safety technology and it is suitable for continuously operated zone heating.
- High Efficiency The 27-DVIM22 has one of the highest efficiencies of any Direct Vent gas insert, which means that it is less expensive to operate.
- Adjustable Fan Speed Each 27-DVIM22 comes complete with an adjustable speed temperature controlled circulation fan.
- Adjustable Flame The flame aesthetics and heat output can be adjusted to suit the owner's liking and heating needs.
- Solid Construction The 27-DVIM22 is mainly constructed of 16 and 18 gauge galvanized and aluminized coated steel for long life and durability.
- Optional Accessories Check with your Authorized Archgard Dealer for a full complement of decorative accessories to suit your home's décor and your tastes.
- Mill volt Control System The gas control system is "thermostat" ready for any optional mill volt wall thermostat or wireless remote control.

Fireplace Model Number: **27-DVIM22** Serial Number: _____

Date of Installation: _____

Type of Gas Used by the Fireplace: Natural Gas Propane

Dealer's Name & Address: _____

Dealer's Phone Number: _____

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F O R Y O U R S A F E T Y

Do not install or operate your Archgard 27-DVIM22 without reading and understanding this manual. Any installation or operational deviation from this instruction manual voids the Archgard Industries Warranty and may prove hazardous.

C A U T I O N

- This appliance must be installed by a qualified gas installer and the installation must conform to the installation codes.
- Provide adequate clearance around air openings. Never obstruct front openings.
- Ensure adequate clearances for proper operation and servicing of the appliance.
- This appliance must be properly connected to an approved venting system and must not be connected to a chimney flue serving a separate solid fuel burning appliance.
- Provide adequate clearance around the intake and exhaust openings

A T T E N T I O N

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

SAFETY

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

Children and adults should be alerted to the hazards of high surface temperature and stay away to avoid burns or clothing ignition.

Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.

Clothing or other flammable material should not be placed on or near the appliance.

Do not operate with cracked or broken glass. Be careful not to strike or slam the glass.

Any safety screen or guard removed for servicing an appliance must be replaced prior to operating.

Installation and Repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that the control compartments, burners and circulating air passageways of the appliance are kept clean.

Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

APPLIANCE CERTIFICATION

This appliance was listed by LABTEST Certification Inc to the following USA and Canadian gas appliance standards.

- ANSI Z21.88-2009/CSA 2.33-2009 Vented Gas Fireplace Heaters
- CAN/CGA-2.17-M91, Gas-Fired Appliances for Use at High Altitudes
- CSA P.4.1-09 testing method for measuring annual fireplace efficiency.

The listing label is attached to the appliance on the bottom right side of the appliance.

A copy is shown on page

Please contact Archgard Industries Ltd., if you have any questions regarding the certification of this appliance.

INSTALLATION CODES

This appliance must be installed by a qualified gas appliance installer. The installation must conform with the local codes or, in the absence of local codes, with the current *National Fuel Gas Code ANSI Z223.1/NFPA 54*, or the *Natural Gas and Propane Installation Code CSA-B149.1* in Canada.

The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code ANSI/NFPA No. 70*, or the *Canadian Electrical Code CSA C22.1*.

A manufactured home or mobile home OEM installation must conform with the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280*, or, when such a standard is not applicable, the *Standard for Manufactured Home Installations, ANSI/NCSBCS A225.1*, or *Standard for gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4*.

SPECIFICATIONS

	Natural Gas (NG)	Propane (LP)
Manifold Pressure	3.5 in. W.C. (0.9 kPa)	10.0 in. W.C. (2.5 kPa)
Min. Supply Pressure	5 in. W.C. (1.2 kPa)	11.0 in. W.C. (2.8 kPa)
Max Supply Pressure	14.0 in. W.C. (3.5 kPa)	14.0 in. W.C. (3.5 kPa)
Orifice Size	#43 DMS (2.25 mm dia)	#54 DMS (1.36 mm dia)
Nominal Input Rating	15,000 - 22,400 BTU/h (4.5 - 6.56kW)	16,500 - 21,000 BTU/h (4.8 - 6.15kW)
Electrical Rating	120 VAC, 60Hz less than 2 A.	120 VAC, 60Hz less than 2 A.
Gas Control	SIT 820 Nova	SIT 820 Nova
Altitude	0 - 4,500 ft. (0 - 1372 M)	0 - 4,500 ft. (0 - 1372 M)
Primary Air Opening	1/4" (6 mm) OPEN	FULLY OPEN

HIGH ALTITUDE INSTALLATION

When installing this appliance beyond 4500 ft. (1372 M) above sea level, the appliance must be properly de-rated and installed according to local codes, in the absence of local codes, with the current *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, in the US or Installation Code, *CAN/CGA-B149, in Canada*.

RATING PLATE

 ARCHGARD <small>FIREPLACE PRODUCTS</small>		<small>DO NOT REMOVE THIS LABEL</small> <small># de série LC</small> <small>Serial #</small> <small>NE PAS ENLEVER CETTE ETIQUETTE</small>																												
MODEL / MODÈLE: 27-DVIM22																														
<input type="checkbox"/> C <input type="checkbox"/> NG / NATURAL <input type="checkbox"/> L <input type="checkbox"/> LP / PROPANE																														
<small>LISTED VENTED GAS FIREPLACE HEATER and GAS-FIRED APPLIANCES FOR USE AT HIGH ALTITUDES. RADIATEUR VENTILE, CIRCULATEUR DU TYPE VENTILATEUR. Tested to / Testée selon les normes : ANSI Z21.88-2009 / CSA 2.33-2009 and CAN/CGA-2.17-M91. This vented gas fireplace heater is not for use with air filters. Certified for use in both CANADA and USA. / Certifié pour utilisation dans le Canada et les ÉTATS-UNIS.</small>																														
VENTED GAS FIREPLACE HEATER-NOT FOR USE WITH SOLID FUEL.																														
<input type="checkbox"/> BTU 820 Valve																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"></th> <th style="text-align: center;">NG</th> <th style="text-align: center;">LPG</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">Input rating / Entrée assignée</td> <td style="text-align: center;">15,500 - 22,400 BTU/hr (4.54 - 6.56 kW)</td> <td style="text-align: center;">16,500 - 21,000 BTU/hr (4.84 - 6.15 kW)</td> </tr> <tr> <td style="text-align: left;">Manifold pressure / Pression d'admission</td> <td style="text-align: center;">3.5 in. W.C. (0.9 kPa)</td> <td style="text-align: center;">10.0 in. W.C. (2.5 kPa)</td> </tr> <tr> <td style="text-align: left;">Orifice size / Dimension de l'orifice</td> <td style="text-align: center;">#43 DMS (2.25 mm dia.)</td> <td style="text-align: center;">#54 DMS (1.36 mm dia.)</td> </tr> <tr> <td style="text-align: left;">Minimum supply pressure for purpose of input adjustment / Pression minimale d'alimentation pour le but d'ajustement de contribution</td> <td style="text-align: center;">5.0 in. W.C. (1.2 kPa)</td> <td style="text-align: center;">11.0 in. W.C. (2.8 kPa)</td> </tr> <tr> <td style="text-align: left;">Burner Primary Air Setting</td> <td style="text-align: center;">1/4" (6 mm) Open</td> <td style="text-align: center;">100% Open</td> </tr> <tr> <td style="text-align: left;">Altitude / Elevation</td> <td style="text-align: center;">0 - 4500 ft (0 - 1372 m)</td> <td style="text-align: center;">0 - 4500 ft (0 - 1372 m)</td> </tr> <tr> <td style="text-align: left;">Electrical rating / Tension électrique</td> <td style="text-align: center;">120 VAC, 60 Hz less than 2 A. / 120 V, 60 Hz Moins que 2 A.</td> <td></td> </tr> <tr> <td style="text-align: left;">Keep burner and control compartment clean. See Instructions accompanying the heater. Maintenir propres le brûleur et le compartiment de commande. Voir les instructions relatives à l'installation et au fonctionnement qui accompagnent le radiateur. Optional fuel conversion kit : See Manual</td> <td colspan="2" style="text-align: left; padding-left: 20px;"> Minimum clearances to Combustibles / Distances: Minimales entre l'appareil et les combustibles: Sides from glass door frame/ Côtes: 8 "(203 mm) Mantle / Manteau: 8" deep(305 mm) at min 11"(991 mm) from top of door See Owner's Manual for additional clearances </td> </tr> </tbody> </table>					NG	LPG	Input rating / Entrée assignée	15,500 - 22,400 BTU/hr (4.54 - 6.56 kW)	16,500 - 21,000 BTU/hr (4.84 - 6.15 kW)	Manifold pressure / Pression d'admission	3.5 in. W.C. (0.9 kPa)	10.0 in. W.C. (2.5 kPa)	Orifice size / Dimension de l'orifice	#43 DMS (2.25 mm dia.)	#54 DMS (1.36 mm dia.)	Minimum supply pressure for purpose of input adjustment / Pression minimale d'alimentation pour le but d'ajustement de contribution	5.0 in. W.C. (1.2 kPa)	11.0 in. W.C. (2.8 kPa)	Burner Primary Air Setting	1/4" (6 mm) Open	100% Open	Altitude / Elevation	0 - 4500 ft (0 - 1372 m)	0 - 4500 ft (0 - 1372 m)	Electrical rating / Tension électrique	120 VAC, 60 Hz less than 2 A. / 120 V, 60 Hz Moins que 2 A.		Keep burner and control compartment clean. See Instructions accompanying the heater. Maintenir propres le brûleur et le compartiment de commande. Voir les instructions relatives à l'installation et au fonctionnement qui accompagnent le radiateur. Optional fuel conversion kit : See Manual	Minimum clearances to Combustibles / Distances: Minimales entre l'appareil et les combustibles: Sides from glass door frame/ Côtes: 8 "(203 mm) Mantle / Manteau: 8" deep(305 mm) at min 11"(991 mm) from top of door See Owner's Manual for additional clearances	
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<small>Il faut que cet appareil soit installé selon les codes locaux, s'il y en a; sinon, suivre le CAN/CGA-B149 actuel au Canada et ANSI Z223.1 aux É.-U. Il faut que le raccordement électrique et la mise à la masse soient en conformité avec les codes locaux, s'il y en a; sinon, suivre le CAN/CSA C22.1 actuel au Canada et ANSI/NFPA 70 aux É.-U. Cet appareil est certifié pour l'installation dans une chambre à coucher ou une pièce qui sert de chambre.</small>																														
<small>Made in Canada by / Fabriqué au Canada par: Archgard Industries Ltd. 7116 Beatty Dr., Mission, B.C.</small>																														
<small>FEB 2014 303-6027-2</small>																														
																														

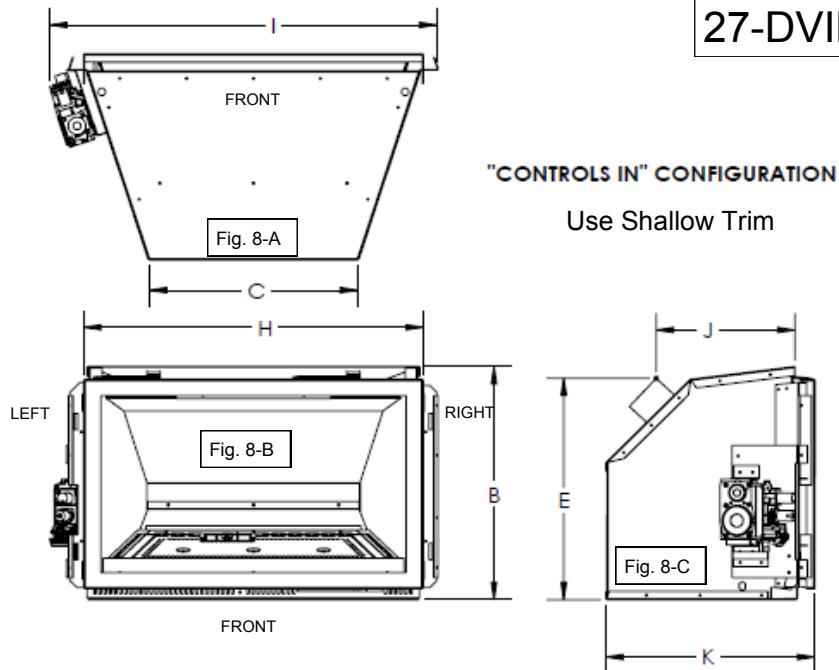
NATIONAL
FIREPLACE
INSTITUTE®



We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

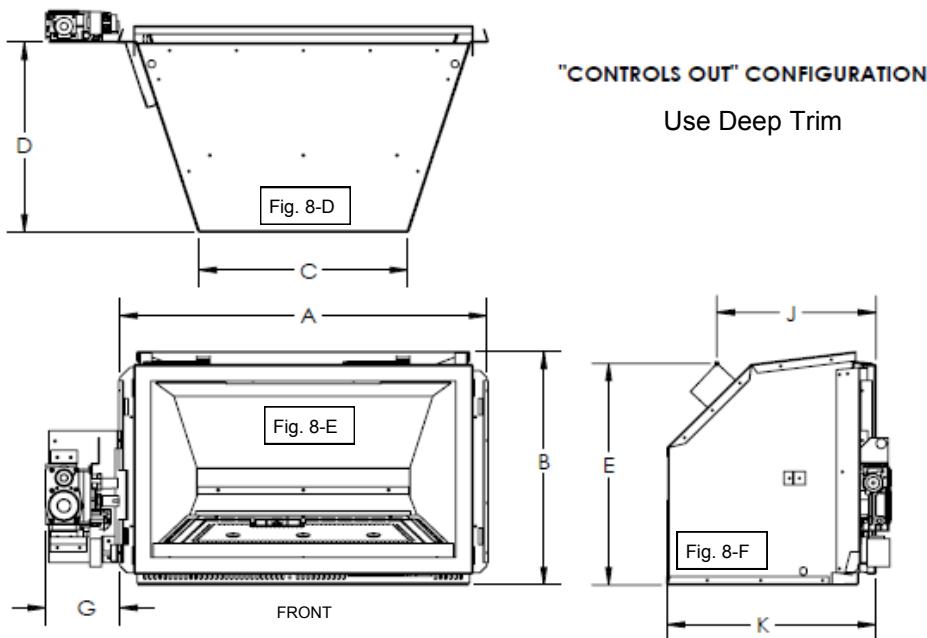
CONFIGURE THE FIREPLACE - CONTROL PANEL LOCATIONS

The control panels can be mounted in the following different ways. They are shipped in the "Controls In" configuration. They can be moved to the "Controls Out" configuration by removing the two mounting screw on each side and swinging the panels out and re-installing the screws. They can also be disconnected and placed remotely within the limits of the gas connections and electrical wiring making sure to place them away from any heat source over 150 degrees Fahrenheit or 65 degrees Celsius



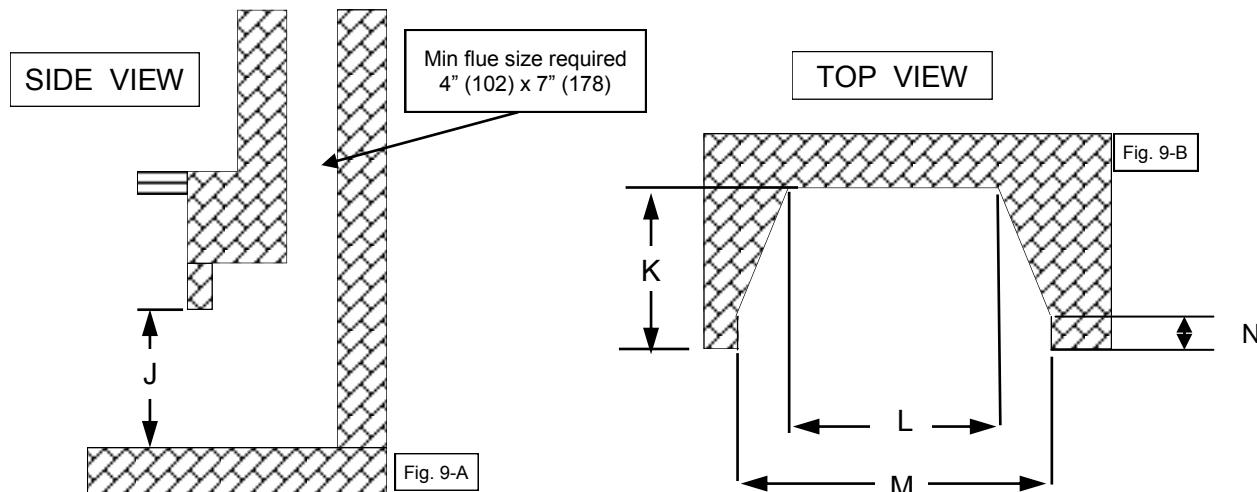
A	B	C	D	E	G	H	J	K	I
27-1/2"	17-5/8"	15-5/8"	14-1/2"	16-3/4"	5-1/2"	25-3/8"	10-3/8"	15-3/4"	29"

697MM 448MM 396MM 406MM 426MM 141MM 644MM 264MM 400MM 736MM



MINIMUM FIREPLACE OPENING DIMENSIONS

Masonry Fireplace



	J	K	L	M	N
DIMENSIONS "Controls Out"	17-3/4" (451 mm)	15" (381 mm)	16" (406 mm)	25 1/2" (648 mm)	0"
DIMENSIONS "Controls In"	17-3/4" (451 mm)	15 1/2" (381mm)	16" (406 mm)	29 1/2" (749 mm)	3" (76mm)

ATTENTION

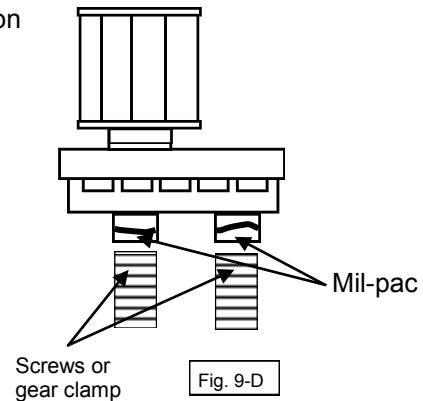
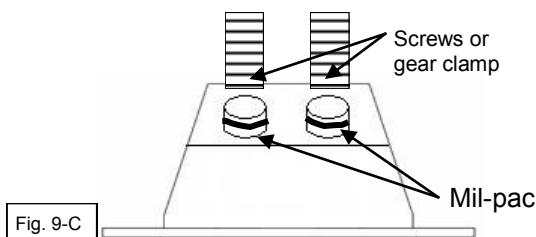
This fireplace has been designed to be installed into a Masonry or Factory Build Wood Burning Fireplaces **ONLY**. Never attempt to install the appliance into a combustible enclosure.

If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

SEALING THE VENT

Roof Termination

Secure the flexible liner at the top of the fireplace and at the termination. **DO NOT** use silicone as this will void the flame sensor warranty. Use mil-pac or other non silicone sealant and three (3) screws or gear clamps to seal the liner at each end.



DO NOT USE SILICONE TO SEAL VENT

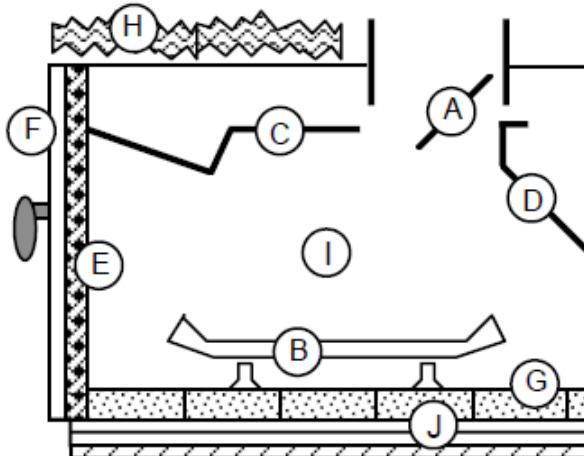
Factory –Built (metal) Wood-Burning Fireplace Opening Requirements


Fig. 10-A

I N S T A L L E R N O T E S

The installer must mechanically attach a marking (supplied in the manual bag) to the inside of the firebox of the fireplace into which the gas fireplace insert is installed indicating that it has been altered and is no longer suitable for burning the original fuel unless the removed parts are reinstalled

Cutting of any sheet-metal parts of the fireplace, in which the gas fireplace insert is to be installed, is prohibited unless following the directions below.

If the factory-built fireplace has no gas access hole (s) provided, an access hole of 1 1/2" (38.1 mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship-like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed.

The fireplace flue damper (A) must be fully blocked open or removed for installation of the gas fireplace insert.

The fireplace and fireplace chimney must be clean and in good working order and constructed of non-combustible materials. The chimney cleanouts must fit properly.

Refractory (G & I), glass doors (F), screen rails & screen mesh (E) and log grates (B) can be removed from the fireplace before installing the gas fireplace insert.

Smoke shelves (C) and baffles (D) may be removed if attached by mechanical fasteners. Trim panels must not seal ventilation openings in the fireplace.

N O T E

The metal floor of the firebox may be removed only if the following is strictly adhered to.

The metal floor (J) may be removed to allow additional room for installation of the insert. If the floor is removed the insert must be placed directly on the metal base of the metal fireplace. **Under no circumstance can it be placed directly on a combustible material.**

A T T E N T I O N

Any parts that are removed must be saved and re-installed if the insert is ever removed.

W A R N I N G

Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

W A R N I N G

Any hearth extending out in front of the insert must not have any portion above 7" below the bottom of the unit made from combustible materials. This includes any type of framing underneath a non-combustible material such as tile, marble or stone. Any material below 7" can be combustible.

N O T E

All specified clearances must be maintained from the top surface of carpeting, tile, etc.

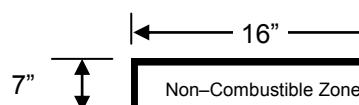


Fig. 11-A

C A U T I O N

This appliance is designed for use in any masonry or factory-built, wood-burning fireplace. It cannot be enclosed by combustible material and used as a built-in gas fireplace.

N O T E

If existing wood fireplace hearth protection is removed it must be replaced by a non-combustible hearth protection 7" thick, extending a minimum of 16" (406 mm) from the front of the fireplace insert or have a minimum 7" (178 mm) clearance below the level of the bottom of the insert.

N O T E

All specified clearances must be maintained from the top surface of carpeting, tile, etc.

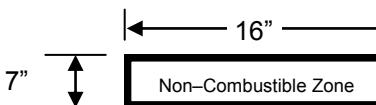
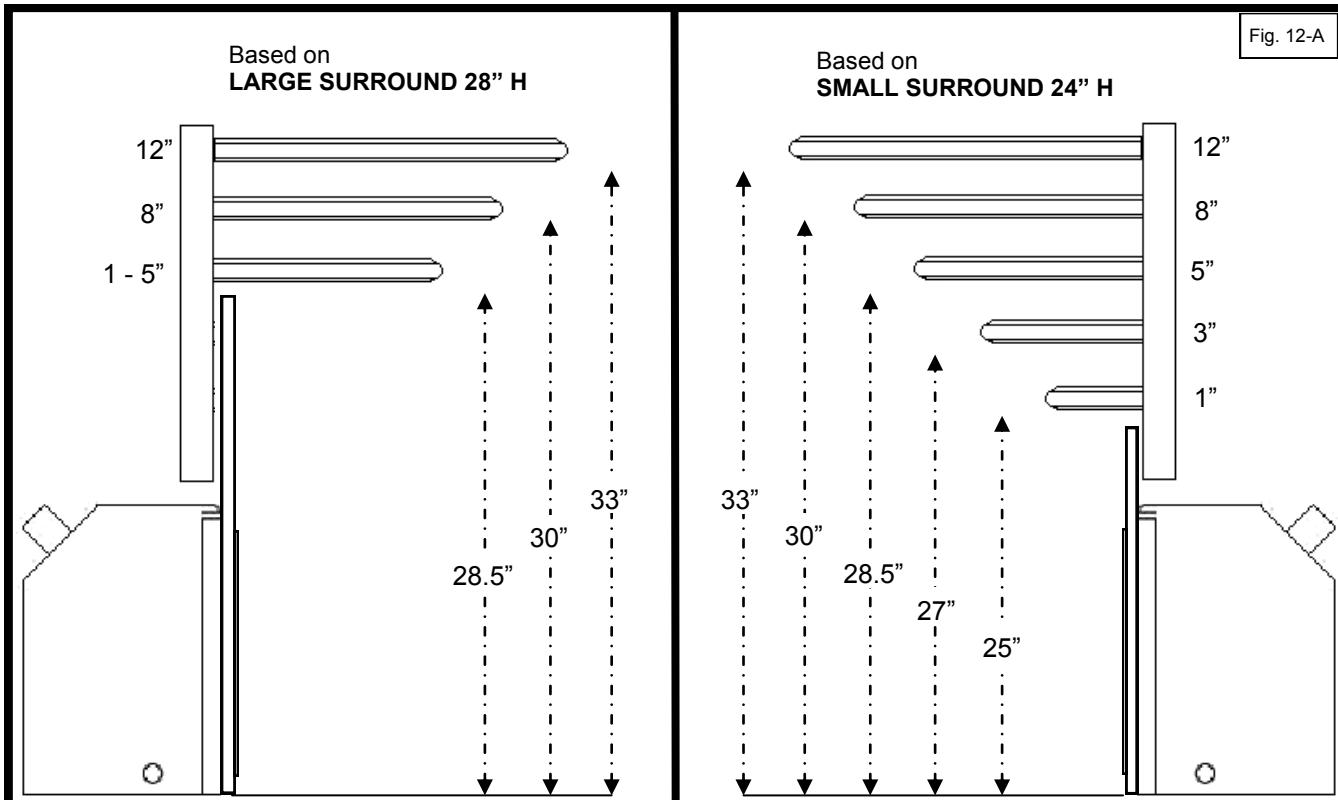


Fig 11-B

MANTLE CLEARANCES**W A R N I N G**

Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

**N O T E**

Mantle depth of less than 1" is not considered a mantle

SIDEWALL CLEARANCES

Minimum 8" (204 mm) clearance is required from the glass door frame to a sidewall or mantle support.

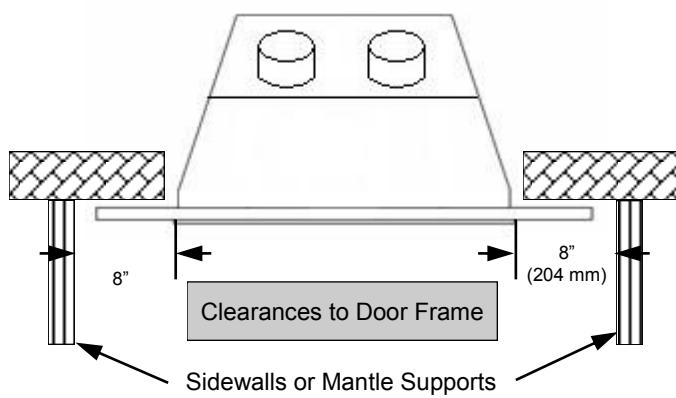


Fig. 12-B

GAS CONNECTIONS

Before connecting the appliance to the gas supply line, double check that the appliance you have purchased is designed for the gas type you are using. The gas type markings are located on the certification label and also on the appliance's gas valve.

Adequate clearance for proper installation and checking of the gas connections must be provided. All gas connections must be checked for gas leaks.

Have your gas supplier or a qualified gas fitter run a gas supply line into the fireplace. The line must be properly sized and fitted according to the installation codes. Immediately upstream of the supply connection, the fitter shall provide an accessible manual shut-off valve. When connecting the supply line to the gas valve, the installer shall brace the gas valve to ensure that the gas valve is not moved from its bracket. If the valve is not braced when the supply line is connected, the valve may be moved and cause a "break" in the main burner supply line. Such damage is not covered by the manufacturer's warranty.

CAUTION

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure-testing of that system at test pressures in excess of 1/2 psig (3.5 kPa). The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure-testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa). Failure to do so will damage the appliance's gas valve. Such damage is not covered by the manufacturer's warranty.

Natural Gas Pressure Settings:

The inlet supply or line pressure must be a minimum of 5" W.C. (1.2 kPa) and a maximum of 14" W.C. (3.5 kPa). The orifice is a #43 DMS (2.25mm) drill size.

ELEVATION	INPUT RATING
0-4500 ft (0-1372 M)	22,400 BTU/hr (9.6 kW)
4500 ft (1372 M) and above.	22,400 BTU/hr (9.6 kW) less 4% per 1000 ft. (305 M)

Please contact your local distributor for the appropriate orifice size you require.

Propane Pressure Settings:

The inlet supply or line pressure must be a minimum of 11" W.C. (2.8 kPa) and a maximum of 14" W.C. (3.5 kPa). The orifice is a #54 DMS (1.36 mm) drill size.

ELEVATION	INPUT RATING
0-4500 ft. (0-1372 M)	21,000 BTU/hr (9.02 kW)
4500 ft. (1372 M) and above.	21,000 BTU/hr (9.02 kW) less 4% per 1000 ft. (305 M)

Please contact your local distributor for the appropriate orifice size you require.

INSTALLERS NOTE

THE INPUT RATING SHOULD BE CHECKED ON INITIAL START-UP OF THIS APPLIANCE.

To do this, reduce the background flow rate, time the meter.

Light the fireplace and take another reading after 15 minutes of operation.

Check with your gas supplier for the gas BTU content at your elevation.

Input is the rate of flow multiplied by the heating value of the gas (3600 x Calorific Value) divided by the time (in seconds) it takes for (1) rotation of the 1 cubic foot dial on the meter.

Adjust the manifold pressure so that the unit does not operate above the rated input.

CONVERSION KIT INSTRUCTIONS

W A R N I N G

The conversion kit shall be installed by a qualified service agency in accordance with the manufacturers instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is **not** followed exactly, a fire, explosion or production of carbon monoxide may result, causing property damage, personal injury or loss of life. The qualified service agency is responsible for proper installation of this kit.

The installation is not proper and complete until operation of the converted appliance is checked as specified in the instructions supplied with the kit. Refer to appliance owner's manual or product data plate for proper inlet and manifold pressure adjustments and orifice sizing.

I M P O R T A N T

This fireplace is Natural gas ready. If converting to LP gas, follow instructions below

KIT NUMBERS: 27-CKMLP for LP gas and 27-CKMNG for Natural Gas

KIT INCLUDES:

- 1- Gas conversion label (303-0128)
- 1- Burner orifice (301-0068) (#54 DMS for LPG) (#43 DMS for NG)
- 1- Instruction Sheet
- 1- SIT 820 Valve conversion regulator c/w instructions & gas type label (0.907.202) LPG (0.907.201) NG

F O R Y O U R S A F E T Y

SHUT OFF GAS SUPPLY AND ELECTRICAL POWER TO FIREPLACE BEFORE BEGINNING THE GAS CONVERSION

PREPARE THE FIREPLACE

- Remove the surround, glass door assembly, logs/media and brick/panels (if applicable).
- Remove the burner side brackets and the front ember ledge. The ledge lifts up and out.
- Remove burner . Three screws along the top edge of the burner secure it to in place.

Remove the burner orifice using a 1/2" wrench. Replace with the orifice supplied with the conversion kit. Use a small amount of pipe sealant on the threads of the orifice holder.

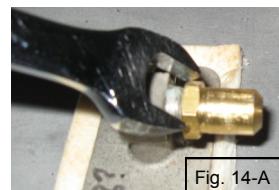


Fig. 14-A

PILOT CONVERSION

Using a 7/16" wrench and loosen the pilot hood 1/4 turn. Slide the tab at the bottom of the orifice hood all the way so the red side (propane) with the hole in it is showing. Tighten the pilot hood back up so that it is lined up with the two probes on both sides of the pilot assembly.

Wrench here

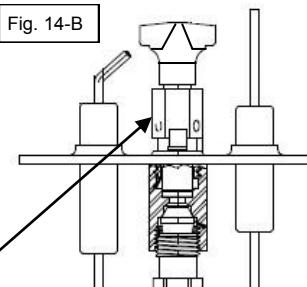
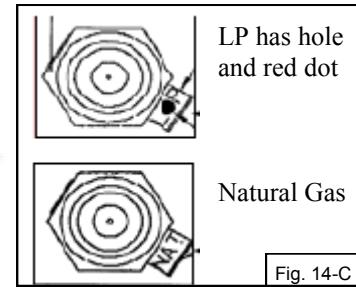


Fig. 14-B



LP has hole and red dot

Natural Gas

Fig. 14-C

CONVERSION KIT INSTRUCTIONS, cont.

W A R N I N G

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the appliance is checked as specified in the manufacturer's instructions supplied with the kit.

CONVERT THE GAS VALVE

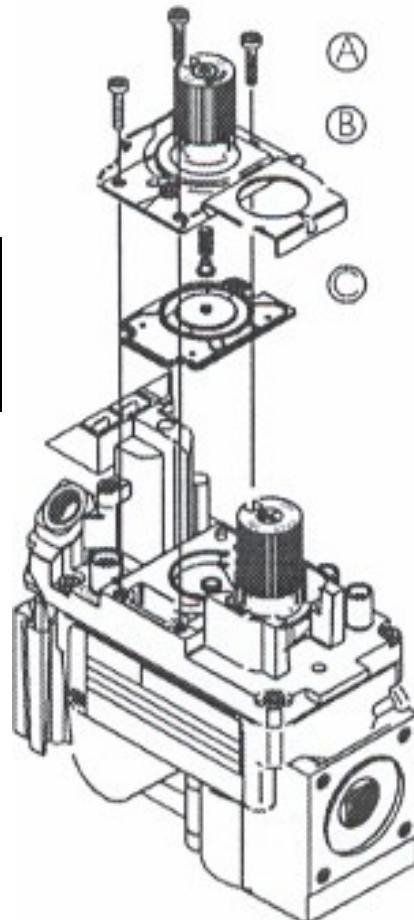
On the SIT valve, use an Allen key or a slotted screwdriver to remove and discard the three pressure-regulator mounting screws the pressure regulator tower and the spring diaphragm assembly.

I M P O R T A N T

Ensure that the rubber gasket is properly positioned and install the new modulating pressure regulator assembly to the valve using the screws provided in the conversion package.

Affix Archgard Manufacturer's label (part # 303-0128) in a conspicuous location. We suggest a location close to the gas control valve.

Install the LP identification label to the valve (found in kit).



COMPLETE THE CONVERSION

Turn on the gas and electrical supplies.

Turn on the fireplace so the burner is on

Check for leaks at all connections.

Test inlet and outlet pressure. Visually check pilot flame. Flame should envelope top of the flame sensor and extend forward onto the burner. To adjust pilot turn the pilot adjustment screw on the control valve clockwise to decrease or counter clockwise to increase pilot flame.

Turn fireplace off

Affix gas type label to the rating plate label. (Bottom right side, under the door frame of insert on pull chain)

Complete the conversion label and affix to valve assembly plate.

Re-install the burner, brick, logs, embers and door. (per the instructions starting on pg. 19)

I M P O R T A N T

For high altitude installations above 4500 ft (1372 meters), consult local gas distributor or the authority having jurisdiction for proper de-rating methods.

APPLIANCE DESCRIPTION

TOP VIEW

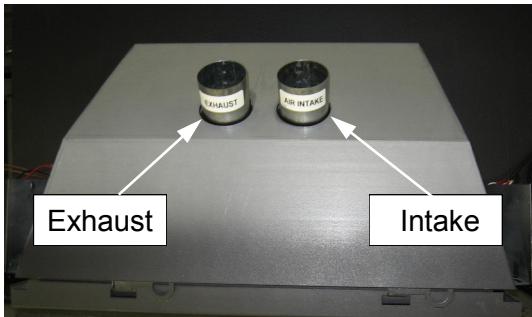


Fig. 16-A

FRONT VIEW

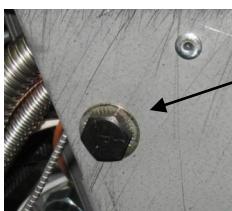


Fig. 16-B

Shown with 27-SKSBS Trim

LEVELING THE 27-DVIM22

Front Level



Located slightly in from the front edge of the fireplace is the new leveling feature. Leveling bolts can be installed to enable you to raise the front of the firebox if necessary. If you need higher adjustment you only need to change to a longer bolt. If no rise is required simply leave empty.

Fig. 16-C



Fig. 16-D

Rear Level

Before placing the appliance into the fireplace, check the hearth of the fireplace to see if it is level with the front of the fireplace. If it is not, measure the depth of the hearth. Loosen the three screws of the leveling "L" bracket at the back of the appliance. Lower it to the measurement obtained and tighten the screws.

ELECTRICAL CONNECTIONS

The 27-DVIM22 comes complete with an thermally controlled variable speed fan equipped with a solid state speed control.

Do not cut or remove the grounding prong from this plug.

NOTE: This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the **National Electrical Code, ANSI / NFPA 70**, or the **Canadian Electrical code, CSA C22.1**.

VENTING INSTRUCTIONS

WARNING: Operation of this heater when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death. The appliance must not be connected to a chimney flue serving a separate solid fuel burning appliance.

C A U T I O N

Only 3" (76mm) double wall aluminum flex liner and approved vent terminals are to be used for this appliance.

APPROVED TERMINATIONS

Manufacturer	Vertical Termination	Termination Adapter
Archgard	999-INS-TK	N/A
Dura Vent	980 - Co-Axial Cap (requires adapter) 991 - Co-Axial High Wind (requires adapter)	923GK (Co-Axial to Co-Linear)
ICC/Excel	IVT - Co-Linear VT - Co-Axial (requires adapter) SVT - Co-Axial (requires adapter)	N/A CTA or CAA (Co-Axial to Co-Linear) CTA or CAA (Co-Axial to Co-Linear)
Ameri-vent	DVC - Co-Axial Cap (requires adapter)	DCAT (Co-Axial to Co-Linear)

A T T E N T I O N

NO OTHER VENTING SYSTEM OR COMPONENTS MAY BE USED. Follow manufacturer instructions for installation of termination.

This appliance is designed for dual 3" (76 mm) double wall aluminum flex liner, running the entire length of the chimney.

The flue length must be a minimum of 10' (3.05 M) and a maximum of 40' (12.2 M)

The exhaust vent restrictor provided with this appliance must only be used by installing it onto the front of the baffle when the vent height is over 18' (5.5 M) if required.

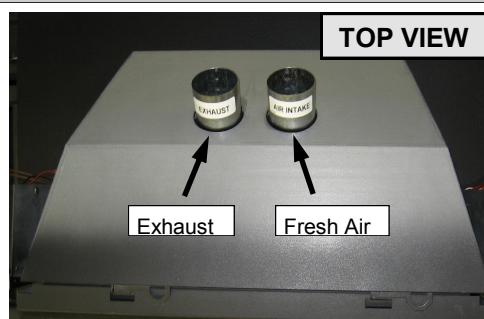
The minimum (chimney) flue size is 4" x 7" (102 mm X 178 mm).

Masonry chimneys may take various contours which the flexible liner will accommodate, however, keep the flexible liner as straight as possible, avoiding unnecessary bending but at all times keep a minimum of 3" (76 mm) inside bend radius.

The Air Intake Flex Liner must be connected to the inlet air collars of the termination cap and the appliance.

The Exhaust Flex Liner must be connected to the exhaust collars of the termination cap and the appliance.

The 27-DVIM22 showing the Fresh Air Intake and Exhaust locations. These connections are labeled.



The Air intake and Exhaust connections are marked on the gas appliance. See picture.

DO NOT REVERSE THESE CONNECTIONS

C A U T I O N

To ensure that the venting is not accidentally obstructed or punctured, the damper of the host fireplace must be permanently disabled. Either complete removal of the damper, or welding it in its "open" position. Temporarily disabling the damper is not permissible.

The 27-DVIM22 requires (2) flexible flue liners:

INLET Collar - 3" (76 mm) diameter

OUTLET Collar - 3" (76 mm) diameter

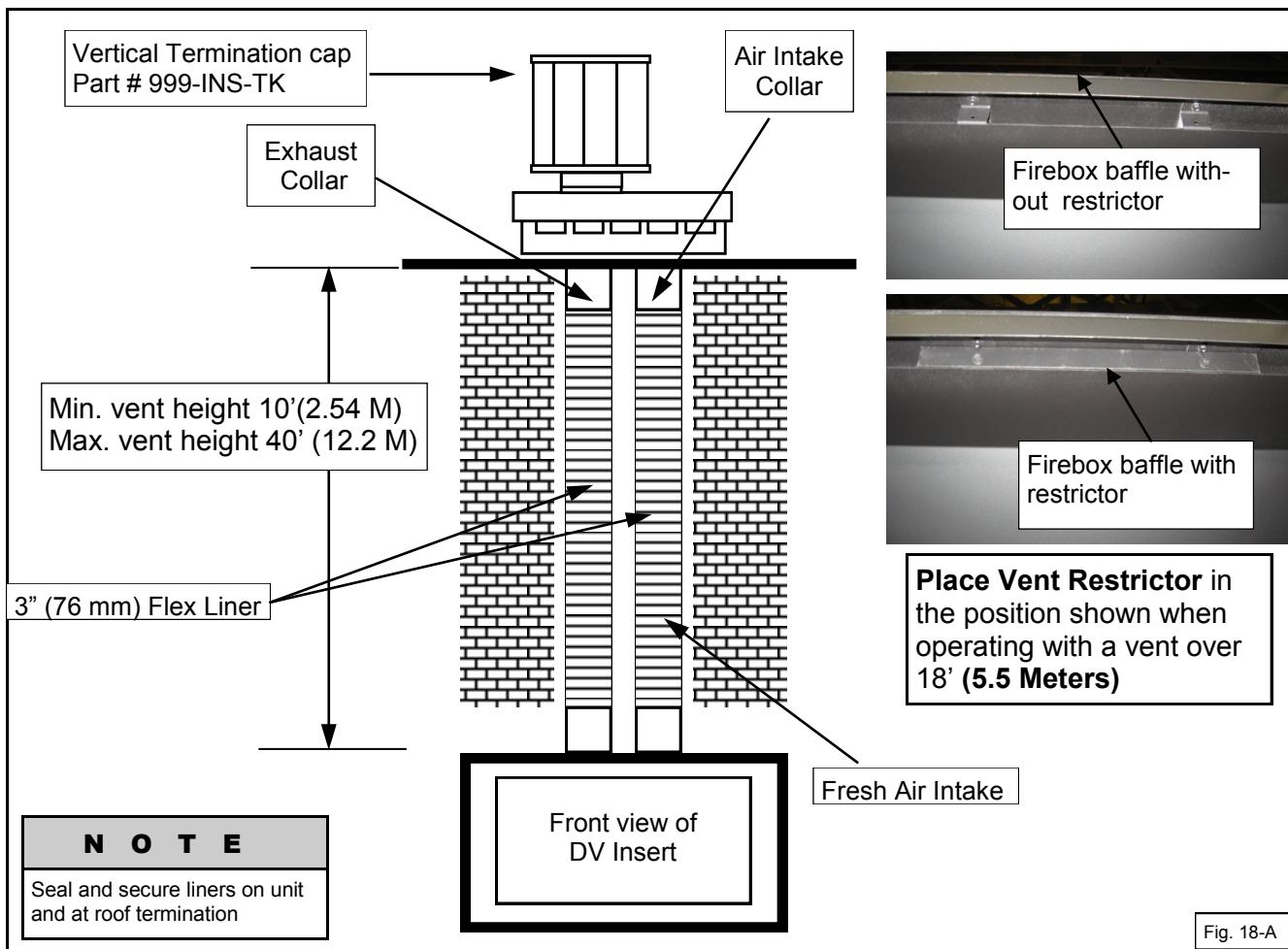
VENTING INSTRUCTIONS 999-INS-TK

Instructions for use with Archgard vertical termination cap. Part # 999-INS-TK

Install the termination cap being sure to provide sufficient space (around and on top) so as not to impede the flow of air, both into and out of the cap. This cap is only to be used for non combustible installations. Do not recess into the top of the chimney.

1. Mark each end of one liner with "Air Intake".
2. Mark each end of the second liner with "Exhaust".
3. Pull the liner through the chimney.
4. Install the flashing.
5. Seal and attach the liner marked "Air Intake" to the vent terminal pipe marked "Air Intake" with the collar clamp provided.
6. Seal and attach the liner marked "Exhaust" to the vent terminal pipe marked "Exhaust" with the collar clamp provided.
7. Seal and attach the end of the flex marked "Air Intake" to the collar marked "Air Intake" on the appliance with the collar clamp provided with the unit.
8. **Install exhaust vent restrictors provided with the unit if required.** Seal and attach the end of the flex marked "Exhaust" to the collar marked "Exhaust" on the appliance.
9. Caulk all joints using a high temperature sealant such as milpac. **DO NOT USE SILICONE SEALANTS. Use of silicon sealants voids the warranty of the pilot assembly.**

NOTE: The vertical termination cap must be sealed to the liner with suitable high temperature sealant, such as milpac and with the hose clamps fasteners provided. **DO NOT USE SILICONE SEALANTS (Use of silicon sealants voids the warranty of the pilot assembly)** The liners must form a complete connection from the appliance flue collars to the vertical termination cap.



The minimum flue (chimney) size required to run the two 3" (76 mm) is 4" x7" (100 mm X 178 mm)

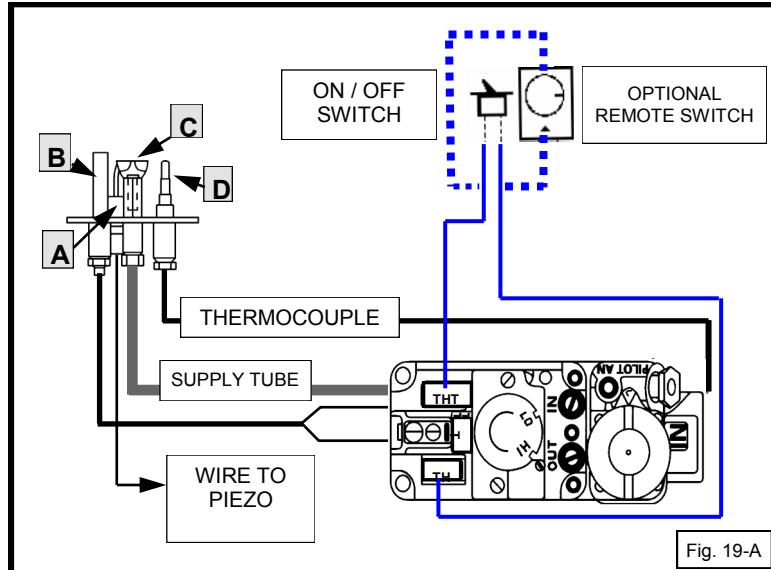
OPTIONAL WALL SWITCH OR THERMOSTAT

If a wall mounted switch or a wall mounted thermostat is desired, Archgard recommends that the device be wired as shown in the diagram below.

NOTE: Archgard Industries does not manufacture or sell any type of wall switch or wall thermostat and will not extend warranty to them

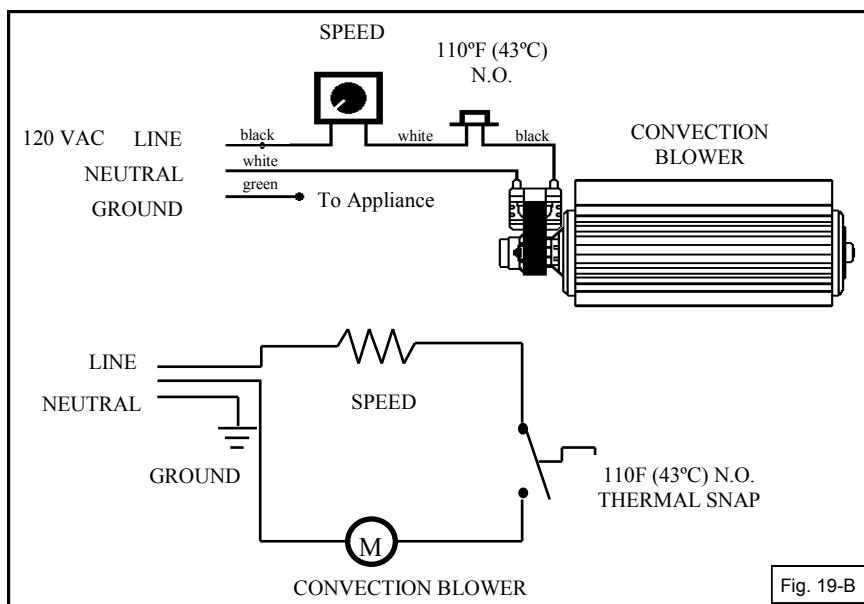
Thermostat/wall switch wire table Recommended max length for two wires.	
Wire Size	Max. Length
14 GA.	50' (15.24 M)
16 GA.	32' (9.75 M)
18 GA.	20' (6.9 M)
20 GA.	12' (3.65 M)
22 GA.	9' (2.74 M)

PILOT ASSEMBLY		
A	ELECTRODE	N/A
B	THERMOPILE	# 308-0056
C	PILOT HOOD	N/A
D	THERMOCOUPLE	# 308-0122



FAN WIRING DIAGRAM

The fan disc is factory set to close the circuit to the fan speed control at 110°F (43°C) and will turn off the fan when the temperature falls below 80°F (27°C).



The 27-DVIM22 comes complete with:

- Temperature activated fan - (#RF-305-0024)
- Solid State speed control. - (#305-0013)
- 6ft power cord

NOTE: This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the *National Electrical Code, ANSI/NFPA 70*, or the *Canadian Electrical code, CSA C22.1*.

SURROUND INSTALLATION

Surround options available are dependent upon the control panel configuration. (See Control Panel Locations regarding configuration.) Shallow surround options are not available on a unit with 'Controls Out' configuration.

Make sure the gas and electrical lines are properly connected to the appliance. Slide the unit into the fireplace and slide the excess flue liner material back onto the chimney. Before the appliance is fully recessed into the fireplace, attach the surround onto the appliance.

Attach the surround to the appliance at the locations shown by lining up the tabs on the surround with the slots on the unit. Make sure the surround drops down and fully engages. Then finish with the wiring connection to the on/off switch on the side of the trim. Now fully "seat" the unit into its final position.

Care must be taken that Trim Panels or Surrounds shall not seal ventilation openings in the fireplace.

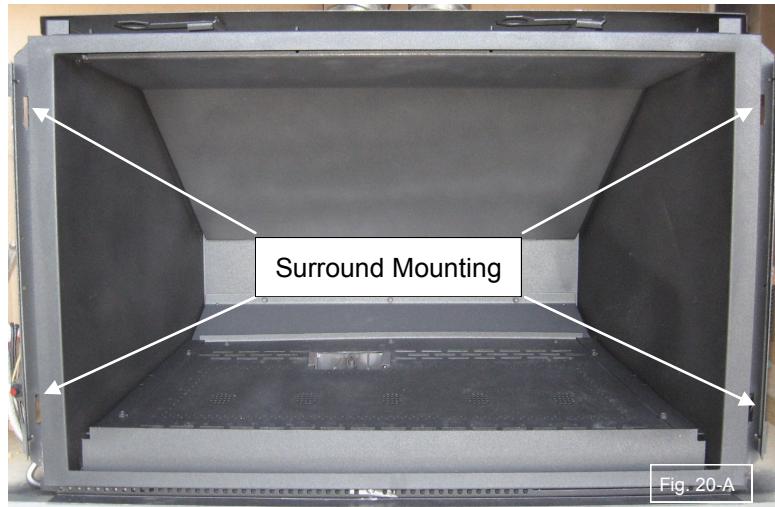


Fig. 20-A

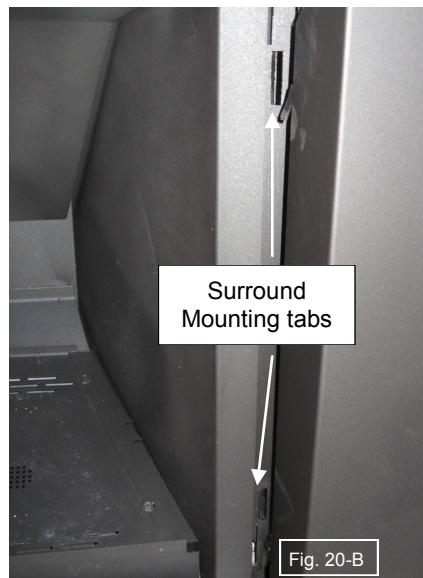


Fig. 20-B



Shown with 27-SKSBS Trim

LOG PLACEMENT

The Archgard pan burner bed and fiber logs are designed to give a realistic fire package, and created to look the same as the day they were originally installed. Care must be given when first installing the logs, and if removed for servicing, as they can be damaged or broken if not handled properly.

After opening the log set package, inspect the logs to ensure that no damage has occurred inside the package. Please report any damage immediately to your Authorized Archgard Dealer.

Gas and vent connection must be made before installing the embers and logs on the pan burner.

N O T E

Improper placement of logs and embers may cause soot accumulation on the internal parts and glass. This is not covered under warranty. Do not use broken or damaged logs.

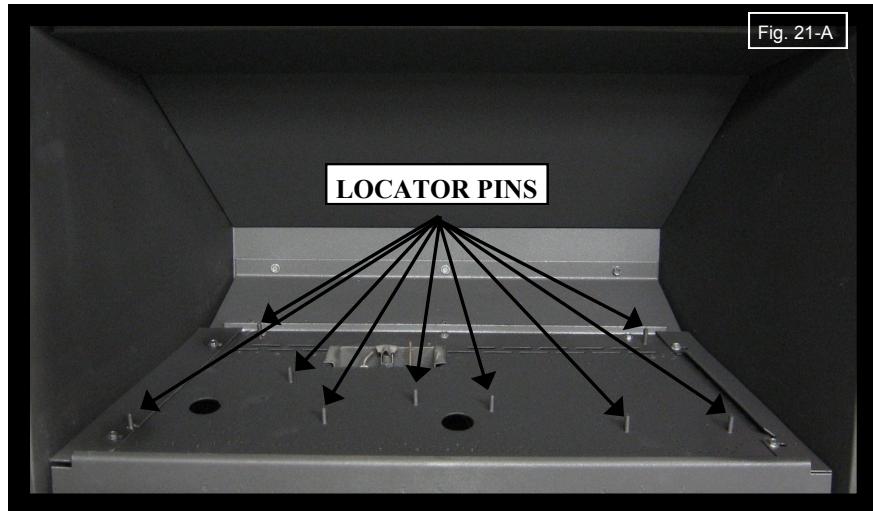
W A R N I N G

Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

Locate the embers and logs and place them on their prospective locations. Refer to the pictured instructions on the following pages that will show how to place all six (6) logs. Pins and holes must be aligned with logs and burner.

Locator Pins

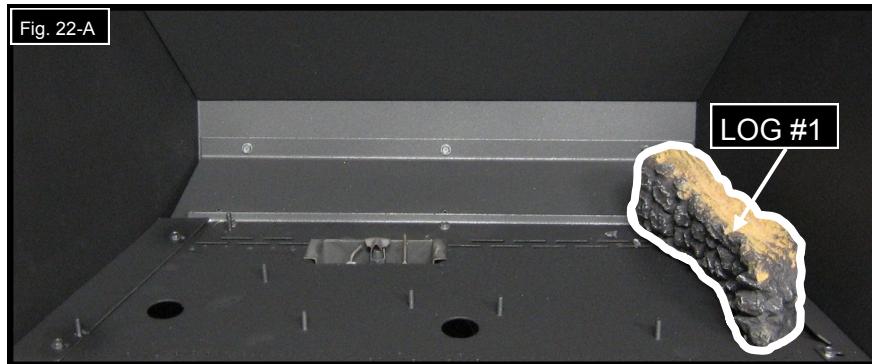
Fig. 21-A

**N O T E**

Installing the fiber logs in any position other than shown can result in flame impingement causing soot accumulation on the logs, brick liner and ceramic glass viewing area.

LOG PLACEMENT... Continued**L O G # 1**

Locate Log 1 and align the holes in the bottom line up with the two locator pins. Push down firmly onto locator pins.

**L O G # 2**

Locate log #2 using the locator pin on the burner for the left side. Sit the right side of the log into the notch of log #1 (as shown in inset)

**L O G # 3**

Locate Log 3 and align the two holes in the log with the two locator pins on the left of the burner. Push down onto locator pins as shown.



LOG PLACEMENT... Continued**L O G # 4**

Locate Log #4 and align the two holes in the log with the two locator pins in the center of the burner.
Push down onto locator pins as shown.

Fig. 23-A

**L O G # 5**

Locate Log #5 and align the hole in the bottom with the locator pin in the burner. Place the other end of the log in the locator pin of log #2.

Fig. 23-B

**L O G # 6**

Locate Log 6 and align the hole in the bottom with the locator pin in the burner. Lay the log back top rest against log #2 and log #4

Fig. 23-C



LOG PLACEMENT... Continued**N O T E**

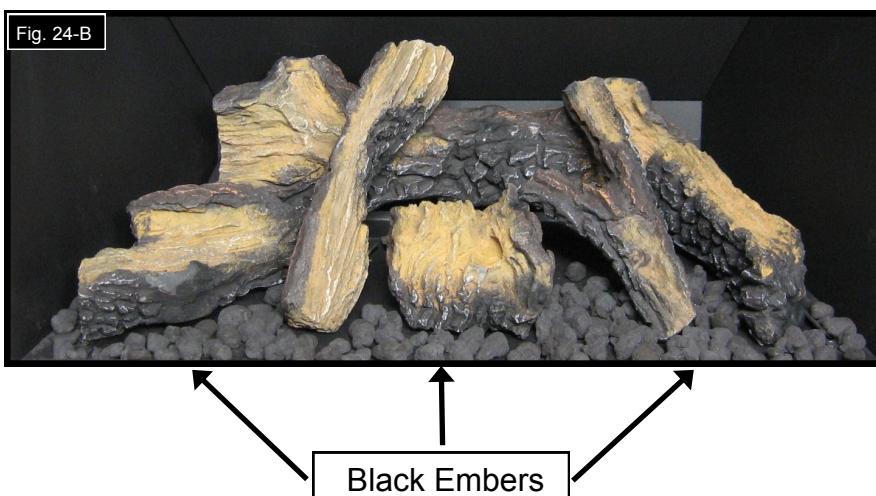
Logs #1, #3 and #4 have been crafted to allow airflow from under the logs. **DO NOT** crush the bottom of the logs to make these sit flush with the top of the burner. Care must also be taken to not completely block the front of the logs with embers.

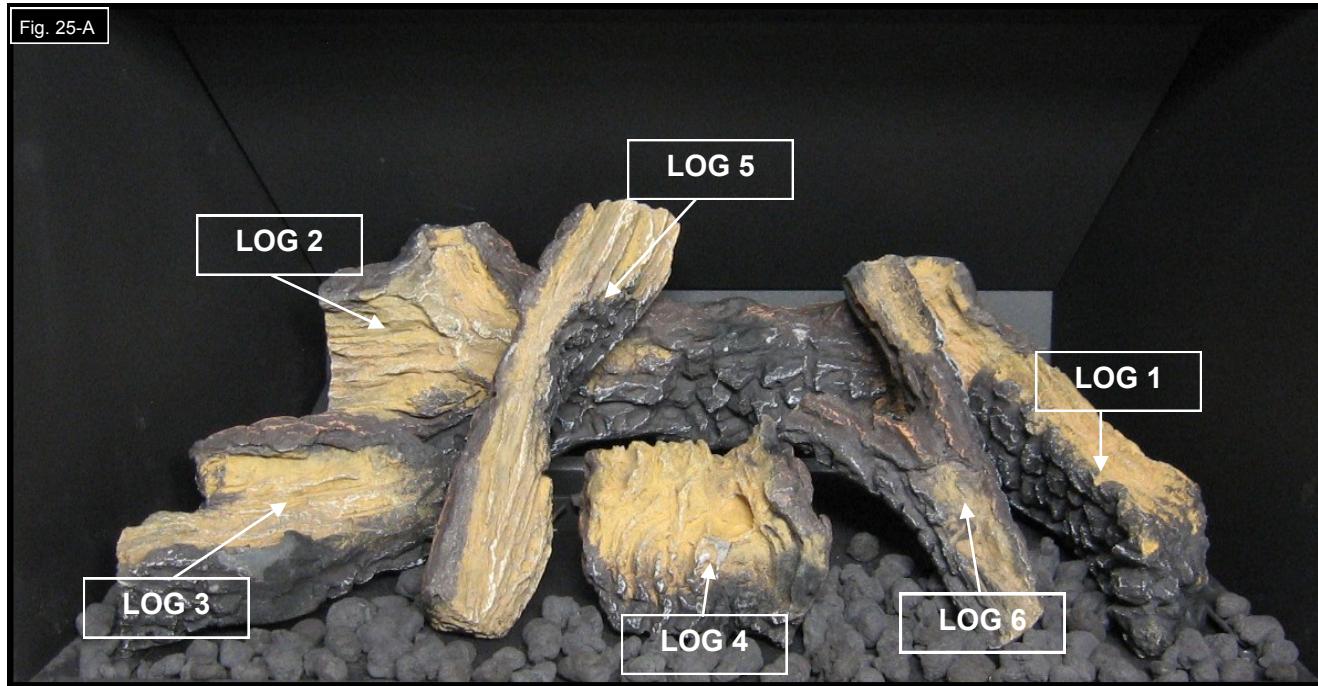


DO NOT block under log air paths.

S T E P # 8

Place black embers around logs as shown , do not completely block the holes in the burner.



COMPLETE LOG SET

Item #	Item Description	Qty	Unit
310-6270	Complete Log Set	1	EA
310-6270-1	Log 1 (Right Side)	1	EA
310-6270-2	Log 2 (Rear)	1	EA
310-6270-3	Log 3 Left Side)	1	EA
310-6270-4	Log 4 (Center Front)	1	EA
310-6222-6	Log 5 (Center Left)	1	EA
310-6222-5	Log 6 (Center Right)	1	EA
310-0020	Black Embers (2 cup bag)	1	EA

GLASS DOOR REMOVAL AND REPLACEMENT**C A U T I O N**

Do not attempt to remove the glass door when the appliance is hot.

1. Just above the door frame reach in and pull the two finger rings forward (26-A).
2. Pull and lift the finger rings to detach from the door frame (26-B).
3. Pull the door forward until the bottom catches release.
4. Lift door up and away.
5. To replace the door line up the two bottom catches with the notches on the fireplace. While pushing evenly on the bottom of the door lift up on the top of the door until it engages.
6. Push down on the top of the door to ensure the door is seated all the way down on the catches.
7. Pull the finger rings out and down to engage in the slots on the top of the door frame.
8. Push the finger rings back.



Fig. 26-A



Fig. 26-B

W A R N I N G

Do not operate appliance with the glass front cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

**IF YOUR GLASS BREAKS**

In the event your glass cracks or breaks, Archgard recommends that a complete new door assembly be ordered to replace the original door.

- Remove door as per the instructions above.
- Replace with new door assembly.

N O T E

The new door will emit some odor/fumes when the appliance is re-lit. This will quickly dissipate after gasket material within the door has cured.

W A R N I N G

Do not substitute glazing materials. Use ARCHGARD certified replacement parts

FINAL INSTALLATION CHECK

Each Archgard Gas Fireplace is checked and tested at the factory prior to being packaged and shipped to our dealers and finally installed in your home. Archgard recommends that before leaving this unit with the customer, the installer must ensure that the appliance is firing correctly and that the electrical system is in working order. **This will include:**

1. Perform leak tests of supply line, gas control valve, supply line from gas control valve and pilot assembly.
2. Clocking the appliance to ensure the correct firing rate (see page 6 of this manual).
3. If required, adjusting the primary air to burner to ensure that the flame does not carbon or soot.
4. Check for proper operation including correct drafting.
5. The fireplace should be turned ON to ensure that the fan is working correctly. After the system has been checked and confirmed that the fan is in working order, refer to the instructions for FIRST FIRE located in this manual.

As a reminder, a TAG is attached to all of our gas fireplaces. This TAG is located at the gas control valve. See below.

Fig. 27-A

**N O T E**

Any alteration to our product that causes carbon or soot deposits that results in any damage or requires cleaning is not the responsibility of the manufacturer.

INITIAL OPERATION

1. Check that the appliance is properly vented and connected to the gas supply.
2. Check that the logs and branches are properly placed.
3. Check that all external parts, such as door and faceplate are properly attached and fastened.
4. Do not operate this appliance with broken, cracked glass doors or without the door (s) in its correct (and latched) position. Do not abuse the glass by either striking or slamming shut.
5. Check that there are no fingerprints left on glass panels, as high temperature can bake these prints on permanently.

FIRST FIRE**A T T E N T I O N**

When operated for the first few times, the appliance will emit some odor and fumes. This is due to the heat evaporating the oils and solvents used in the production of the fireplace. Close off the room to the rest of the house and open all windows. Keep the room well ventilated, as smoke alarm may sound. Run the appliance for at least 6 hours at maximum setting with blower set to "OFF" to allow paint to cure (after the installer has checked to ensure the fan is operational). Smoke and fumes caused by the curing process may cause discomfort to some individuals.

LIGHTING INSTRUCTIONS - CAUTION**W A R N I N G**

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Do not operate the appliance with the glass front removed, cracked or broken. Replacement of broken glass should be done by a licensed or qualified service person.

N O T E

This appliance requires fresh air for safe operation and must be installed so there are adequate provisions for combustion and ventilation air.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:

- * Do not try to light any appliance.
- * Do not touch any electrical switch; do not use any phone in your building.
- * Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- * If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

1. **BEFORE LIGHTING**, smell all around the appliance area for gas. Be sure to smell next to the floor, because some gasses are heavier than air and will settle on the floor.
2. **IF YOU SMELL GAS**, follow the instructions as listed directly above or as shown on the front cover of this manual.
3. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
4. This appliance is equipped with an Piezo ignition which is used to manually light the pilot. The burner lights once the switch on the side of the surround is activated.

LIGHTING INSTRUCTIONS ON RATING PLATE

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

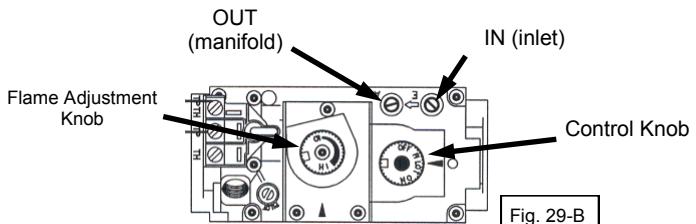
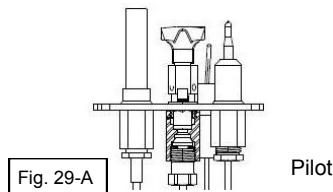
- A. This appliance has a pilot which must be lighted by a spark ignitor. When lighting the pilot follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand don't try to repair it, call a qualified service technician. Forced or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Set the remote switch to "OFF". Set the thermostat to the lowest setting. (Only if your appliance is equipped with these devices.)
3. Turn off all electric power to the appliance.
4. Open lower louvers or access door.
5. Press slightly and turn the control knob clockwise \curvearrowright to the "OFF" position.
6. Press slightly and turn control knob counterclockwise \curvearrowleft to "PILOT". Depress knob and light pilot by repeatedly pressing the sparker. Once flame is established, hold knob depressed for approximately 30 seconds. Release knob. If pilot should go out, repeat steps 3 to 5.
 - If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
7. Turn gas control knob counterclockwise \curvearrowleft to "ON" and set the flame adjustment knob to the desired heat setting from "LO" to "HI".
8. Set the remote switch to "ON". Set the thermostat to the desired setting. (Only if your appliance is equipped with these devices.)
9. Turn on all electric power to the appliance.
10. Close louver or access door.



TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to the lowest setting and turn the remote switch to "OFF".
2. Turn off all electric power to the appliance if service is to be performed.
3. Open lower louvers or access door.
4. Press slightly and turn control knob clockwise \curvearrowright to "OFF". Do not force.
5. Close lower louvers or access door.

MAINTENANCE**C A U T I O N**

Do not conduct maintenance on the appliance while it is operating or while it is still hot.

CLEANING THE APPLIANCE

The exterior painted surfaces, glass and gold trims may be cleaned with a soft, non-abrasive cloth and water or a suitable, mild, non-abrasive cleaner. The use of abrasive cleaners will damage the glass which may cause an unsafe situation and void the warranty.

Regularly:

- Frequent cleaning of the ceramic glass is required. Archgard recommends using a good quality "gas fireplace" glass cleaner that is available at any hearth retail location. DO NOT CLEAN WHILE HOT.
- Clean and remove any lint accumulations or debris from the combustion and convection air passage ways.
- Visually check the height and color of the burner and pilot flames (as shown on pg #32)

Every 2 to 3 months:

- Remove the glass door and clean the inside of the glass with a good quality "gas fireplace" glass cleaner. DO NOT CLEAN WHILE HOT.
- Carefully remove the media and gently brush off any loose carbon deposits. This job is best done outside the house. **Do not wash logs with any liquid.** While the logs are removed, check that all burner openings are not obstructed and it is recommended you use a vacuum cleaner to clean off any dust or lint.
- After cleaning, the media must be replaced as per the instructions in this manual.

Once a year, have a qualified service technician:

- Completely inspect the appliance and the venting system, if the vent pipe or seal is found to be defective, replace and or reseal (follow the instructions found in the venting instructions section). Verify proper operation after servicing.
- Clean and remove any lint accumulations or debris in the firebox, on the burners, on the pilot, at the primary air opening, on the convection air blower and in any combustion and convection air passageways.
- Check the safety system of the gas valve and the appliance.

S A F E T Y N O T E

The appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.

W A R N I N G

All parts removed or disturbed, including guards and grills, must be properly replaced after maintenance. Service and repair must be conducted by a qualified service person. If these instructions are not followed, a fire or explosion may result, causing property damage, personal injury or loss of life.

SERVICING UNDER WARRANTY

Before servicing, read the terms and conditions of the Archgard warranty at the back of the manual. Contact the authorized Archgard dealer where you purchased the appliance from and provide them with details of the problem, along with the initial installation information (from the front of this manual).

W A R N I N G

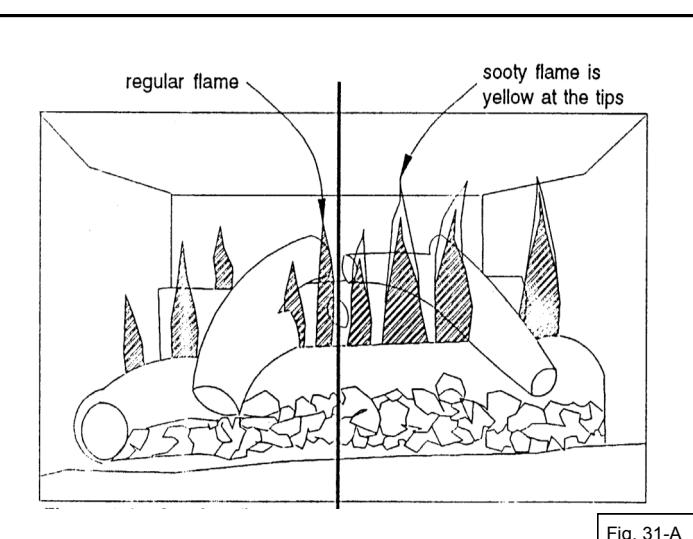
Servicing of this appliance must be conducted by a **qualified service technician**. Improper servicing, adjustment or alteration of this appliance may cause property damage, personal injury or loss of life. All servicing should be conducted with the appliance cold. All replacement parts must be authorized by Archgard for suitability.

ADJUSTING PRIMARY AIR

NOTE: Fig. 31-A is an *example* of what a correct or incorrect flame pattern looks like. It is not a true representation of what the 27-DVIM22 will look like in your home environment.

The air shutter can be adjusted from the front of the unit while in operation. All adjustments should be made after 20 minutes of operation.

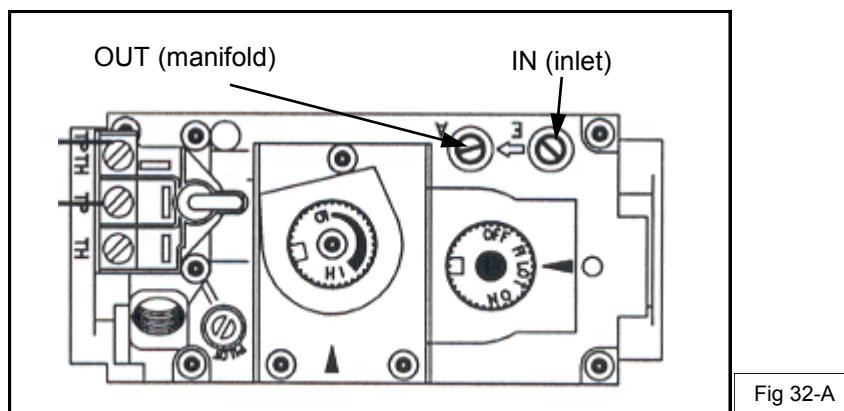
1. Locate the Robertson screw below the glass door and left of center.
2. Turn the screw clockwise to give more air (less yellow flame). Turn the screw counter clockwise to give less air (more yellow flame).

**FLAMES**

The left side shows correct adjustment. The right side shows yellow sooty flames requiring increase in shutter opening or cleaning of shutter area, due to lint buildup.

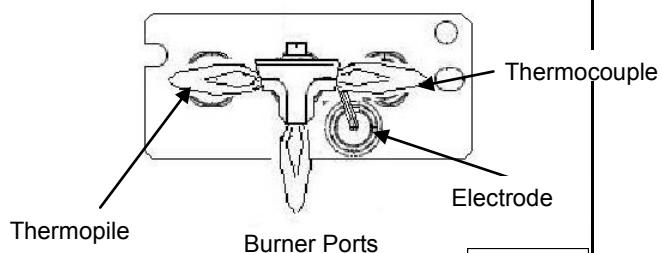
CHECKING INLET AND OUTLET GAS PRESSURE

1. Remove the surround.
2. The pressure test taps are located on the valve. The taps are located in the gas valve front face. The inlet is marked 'IN' and the outlet is marked 'OUT'. See Fig.1.
3. Loosen the set screw inside the tap with a screwdriver.
4. Connect a 1/4" (6 mm) rubber tube to the tap post and a manometer.
5. Verify that the readings obtained are within specs (as shown on the appliance rating plate)
6. Be sure to tighten the set screw inside the tap after you have finished taking pressure readings.
7. Check for leaks.

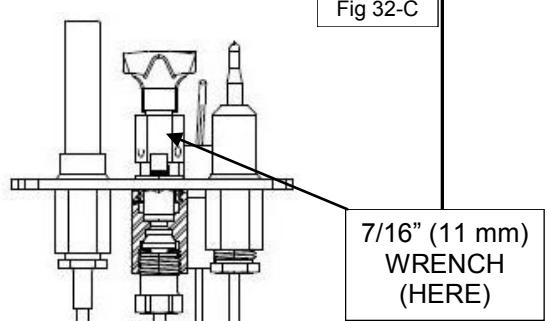


CHECKING AND ADJUSTING PILOT

The pilot flame should have the characteristic as shown in the illustration to the right. The flame should not have yellow tips but should engulf the thermocouple and thermopile. It can be adjusted by turning the screw marked "pilot" on the control valve.



The pilot assembly is convertible to the type of gas being used, simply unscrew the body by using a 7/16" (11 mm) wrench turn a 1/4 open then push the small metal tab across to the other side of the body and retighten. **Call your local Authorized Archgard Dealer to purchase the correct fuel conversion kit for your gas appliance.**



REPLACING COMFORT BLOWER**C A U T I O N**

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.
This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the **National Electrical Code, ANSI/NFPA 70**, or the **Canadian Electrical code, CSA C22.1**.

N O T E

- **Make sure the gas to the appliance has been shut off.**
- **Ensure that the main power and breaker system is turned off before removing the fan.**
- **Make sure the fireplace has been turned off and is cool to the touch.**
- **Mark all wires to be removed for proper reassembly.**

I M P O R T A N T

Wiring errors cause improper and dangerous operation.

The convection fan can be accessed either through the front or through the back of the insert.

TO ACCESS FROM THE FRONT

1. Remove the glass door. Follow GLASS DOOR REMOVAL instructions within this manual.
2. Carefully remove the Logs and Burner media.
3. Remove the pan burner. Follow instructions for CHANGING MAIN BURNER ORIFICE within the conversion section of this manual.
4. Remove the access cover (section set at 45 degree angle) of the firebox by removing the 1/4 " hex head screws.
5. Remove the four nuts holding the fan in place.
6. Disconnect the wires.
7. Mark all wires to be removed for proper reassembly.
8. Install new fan in reverse order.
9. Reverse these steps after new fan is installed & tested.

TO ACCESS FROM THE BACK

1. Remove the surround by lifting up and forward.
2. Disconnect the gas line.
3. Disconnect the intake and exhaust liners
4. Remove the insert from the fireplace.
5. Remove 1/4" hex head screws and the cover plate at the back of the insert
6. Remove the 1/4" hex head screws holding the fan bracket.
7. Disconnect the wires.
8. Remove the 4 nuts holding the fan to the bracket.
9. Replace the fan with the new fan.
10. Reassemble in the reverse order. Making sure to re-seal the venting.

TROUBLESHOOTING

Please check to make sure the instructions are followed exactly before attempting troubleshooting of the appliance.

WARNING

Troubleshooting and servicing of gas and electrical devices of the appliance should only be conducted by a qualified service technician.

SYMPTOM	ACTION
Pilot will not light after pressing the sparker many times.	<ol style="list-style-type: none"> When lighting the appliance for the first time after installation or after servicing, there is air in the gas line. It takes a while for all of the air to purge out of the pilot before gas can reach the pilot and ignite. Remove the glass door and try lighting the pilot many times to purge the air. Check to make sure the gas supply to the appliance is turned on and there is adequate gas supply pressure to the appliance. Check for sparks between the spark electrode and the pilot head when the sparker is pressed. If there are no sparks: <ol style="list-style-type: none"> Check for broken or poor connection from the sparker to the electrode. Check for the spark shorting or arcing at other locations. Check for defective sparker. Check for defective spark electrode. With the door removed, try lighting the pilot with a match. <ol style="list-style-type: none"> If air is blowing on the flame of the match, hold the control knob in at the 'PILOT' setting until all the air is purged out of the line. If there is no gas or air coming out of the pilot and there is gas pressure to the appliance, the pilot orifice may be blocked or the gas valve may be defective.
Pilot will not remain on after being lit.	<ol style="list-style-type: none"> Press the control knob all the way in (at the "pilot" indicator). Hold the control knob in for a longer period of time. If you are trying to re-light the pilot immediately after you have shut-off the pilot, you have to wait 5 minutes for the valve to reset. (safety system built into the valve) Check to see if the pilot flame is large enough to reach and surround the thermocouple. If the flame is too small, check for correct gas supply pressure. If pressure is good, adjust the pilot flame size with the adjustment screw on the valve. If the flame cannot be adjusted, there might be some debris obstructing the pilot orifice, or a wrong size pilot orifice. Check for poor connection of the thermocouple to the valve. Check for proper millivolts of the thermocouple. The thermocouple should generate at least 20 mV or it is defective. Check for defective gas valve.
The main burner does not turn on with the pilot lit.	<ol style="list-style-type: none"> Check to make sure the control knob is turned to the 'ON' position. Allow enough time for the pilot to heat up the thermopile to generate sufficient voltage to activate the valve.

TROUBLESHOOTING Cont...

SYMPTOM	ACTION
The main burner does not turn on with the pilot lit. Cont...	<ol style="list-style-type: none"> 3. Check to make sure the thermostat is set high enough to turn on the appliance. 4. Check that the remote switch or the thermostat is turned on. 5. Check for weak pilot flame. If the flame is weak, check gas supply, check pilot flame adjustment and check for blockage of pilot orifice. 6. Check all connections to the valve for tight electrical contact. 7. Check for 400-500 mV from the thermopile with the burner off and 185-250 mV with the burner on. If the voltages are lower, the thermopile is defective. 8. Check for defective gas valve.
The main burner shuts off when the appliance is warm.	<ol style="list-style-type: none"> 1. This may be the normal operation of a wall thermostat installed to appliances. 2. Check for good pilot flames on the thermopile. 3. Check for good voltage from the thermopile. 4. If venting is suspected, refer to the venting section of this manual for proper venting practices. 5. Check wire connections. Expansion from heat affects a loose connection.
Sooty deposits on the glass door.	<ol style="list-style-type: none"> 1. If the flame is yellow and lazy, check for lint etc. around primary air shutter. Increase primary air by opening the primary air shutter if necessary. 2. Check for proper placement of the logs and branches. Ensure logs and burner are clean. See that section in the instruction manual. 3. Check for proper venting and blockage of the vent termination. 4. Check manifold pressure and clock input rating for over-firing.
Sharp blue flames with flames lifting off the burner at the ends.	<ol style="list-style-type: none"> 1. Too much primary air. Reduce primary air by closing the primary air shutter. During cold temperatures, some flame lifting may occur during start-up.
Convection blower does not turn on.	<ol style="list-style-type: none"> 1. The convection fan is thermostatically controlled. It will only turn on when the appliance is warmed-up. This may take up to 15 minutes with the appliance on high. 2. Check for 120 VAC electrical supply to the appliance. (Is the cord plugged in?) 3. Check for proper mounting of the thermal snap disc. 4. Check electrical connections. 5. Check for defective thermal snap disc. 6. Check for defective convection blower speed controller. 7. Check for defective convection blower.

ARCHGARD LIMITED WARRANTY

This Limited Warranty is made by ARCHGARD INDUSTRIES LTD., hereinafter referred to as "Archgard". Archgard warrants to the original purchaser of an Archgard gas burning fireplace (s) that the product will be free of defects in materials and workmanship under normal use and service, for a "lifetime".

INCLUSIONS: "LIFETIME LIMITED WARRANTY"

- ❖ All heat exchangers, combustion chamber, burner tubes and pans.
- ❖ Ceramic Fiber Logs and Ceramic Brick Panels against splitting or cracking from heat exposure.
- ❖ Ceramic Glass against thermal breakage.
- ❖ NOTE: Discoloration and some minor movement of certain parts are normal and are not a defect and therefore, not covered under warranty.

The above will be covered "parts & labor" to the original purchaser for FIVE years and "parts" only thereafter from original date of purchase.

INCLUSIONS: "FIVE YEAR LIMITED WARRANTY"

- ❖ Five year limited warranty on the Burner System. Warranty will cover any defective burner if defect is deemed as original by the manufacturer.

The above will be covered "parts & labor" to the original purchaser for TWO years and "parts" only thereafter from original date of purchase.

INCLUSIONS: "ONE YEAR LIMITED WARRANTY"

- ❖ All 24 K gold trims and accessories against tarnishing.
- ❖ All trim accessories against tarnishing and paint defects.
- ❖ Blowers, fans and fan motors, wiring, rheostats and thermodiscs.
- ❖ Rocker switches, spill switches and wiring to them.
- ❖ Gas control valves, pilot assemblies including thermopiles, thermocouples, electrodes, and igniters.

The above will be covered "parts & labor" to the original purchaser for ONE year from date of purchase.

EXCLUSIONS:

- ❖ Ember material.
- ❖ Tempered Glass is under warranty for ONE year to the original purchaser from date of purchase.
- ❖ Travel time or mileage to original purchasers residence. Archgard suggests that you pre-arrange travel expenses with your Authorized Archgard Dealer.

WHAT TO DO IN THE EVENT OF A PROBLEM:

- ❖ Thoroughly read your manual.
- ❖ If you cannot solve the problem, contact your Archgard Dealer or representative.
- ❖ When calling for help please have the following information:

Model of your Fireplace	Serial Number	Place of Purchase
Date of Purchase	Problem Description	

- ❖ NOTE: Warranty may be void if work is carried out by an unqualified person (s). Only original Archgard parts may be used. Please consult your Archgard dealer or representative if in doubt about a replacement part (s).

OBTAINING WARRANTY SERVICE:

To obtain warranty service, the original purchaser shall return the defective part (s) to the original authorized Archgard selling dealer transportation prepaid, along with the serial number of the appliance and proof of purchase. Any defective part, in our judgment, will be repaired or replaced at Archgard's discretion. The dealer must obtain approval from Archgard before any repairs are made.

WARRANTY LIMITATION:

THIS LIMITED WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED AS TO QUALITY, MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

The appliance is only warranted for the use as intended by the installation and operating instruction and local building codes. The warranty will not cover damage due to accident, misuse, abuse, alteration, improper installation or "Acts Of God".

This limited warranty is void unless the appliance is installed by a qualified installer, in accordance with the instructions furnished with the appliance. Some Provinces or States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to the original purchaser. Any damage resulting from defects in this product, is limited to the replacement of the defective part (s) and does not include incidental and consequential exposures sustained in connection with the product. This includes facing (s), mantle (s), cabinet (s), tile (s) or any other finishes resulting from removal of any gas appliance. This warranty is limited to residential use only and gives the consumer specific rights. These rights may vary from State to State or Province to Province.

FREQUENTLY ASKED QUESTIONS

Listed below are some frequently asked questions regarding Archgard Gas Fireplaces. If you have questions that are not listed below, or are not answered in this manual, please contact your Authorized Archgard Dealer.

Q. My glass has a condensation "fog" when the appliance is first lit.

A. Condensation is normal and will disappear in a few minutes after the glass is heated.

Q. I have a white "film" on my glass. What is the best way to clean the inside of the glass.

A. Frequent cleaning of your glass is recommended. Archgard recommends using a good quality "gas fireplace" glass cleaner that is available at all authorized dealers. Do not use abrasive materials, and do not clean the glass or the appliance when the unit is hot.

Q. How do I care for my plated trims.

A. Archgard recommends a cleaning with a damp cloth. DO NOT use chemical cleaners as they may harm the finish, and void your warranty. NOTE: If the top louvers, or top overlay starts to discolor, check the door gasket seal and replace if necessary.

Q. My fan/blower makes a "whirring" or "humming" noise.

A. Your Archgard gas appliance uses a powerful fan to push heated air into your room. It is not unusual to hear a "humming" noise when your fan is running. Note: the sound will change depending on the setting that your fan speed control is set at.

Q. I hear a "click" when my fan system activates.

A. When your appliance reaches temperature, it will activate the THERMODISC "fan switch". The switch closes the electrical circuit that allows the fan to turn on. This is a normal sound.

Q. I hear a "ticking", "cracking" or "pinging" sound when my fireplace is running, and after it is turned off.

A. The different gauges of steel used to manufacture your fireplace will expand and contract at different rates when your fireplace is on, and will continue as your fireplace completes its heating function. You will likely hear these same sounds more on start up and shut down. This is normal for steel fireplaces.

Q. I hear a "click" when my main burner turns ON or OFF.

A. Your Gas Control Valve will make a clicking sound when it opens to allow gas to flow to the main burner. This is a normal part of the operating system.

Q. Can I burn wood and other materials in my gas fireplace.

A. No! Burning anything other than natural or LP gas in a gas fireplace or stove will create a potential fire hazard and present a danger to your home and its occupants. Only burn the gas fuel for which the unit was originally designed.

Q. Can I shut my pilot off in the summer?

A. You will save energy by turning off the pilot light if you are not using your appliance for the hot summer months. Remember to relight it before you want to use the appliance for the first time in the fall. Refer to your owners manual for lighting instructions.

Q. Can I position my gas logs in a different fashion or use a different log set?

A. No. Your gas fireplace is an engineered system that includes the firebox, burner, logs, venting and options which are tested and listed by CSA. Changing any specifications or placement of the logs could void your manufacturer's warranty, and possibly even your homeowner's warranty.

REPLACEMENT PARTS LIST - ARCHGARD 27-DVIM22

Item #	Item Description	Unit
308-0013	Valve, SIT 820 Nova, Hi/Low Natural Gas	EA
308-0008	Piezo Igniter (Sparker)	EA
301-0068	Orifice (Main Burner Orifice) Drill to # 43 DMS for Natural Gas	EA
	Orifice (Main Burner Orifice) Drill to # 54 for LP (Propane) Gas	EA
301-6007	Orifice holder	EA
308-0120	Pilot Assembly, conv. NG/LPG Base mount (Includes the items listed below)	EA
308-6057	Thermocouple	EA
308-0056	750 Mv Thermopile	EA
827-1050	Burner Assembly	EA
	Pilot Shield	EA
RF-305-0024	Replacement Cross-flow Fan (120VAC, 115V, 24 watt)	EA
305-0013	Solid State Fan Speed Control	EA
305-0021	Therm-O-Disc (fan sensor) 110 ⁰ F. (43 ⁰ C)	EA
305-0019	On/Off Rocker Switch	EA
27-CKMNG	Conversion Kit LP to NG	EA
27-CKMLP	Conversion Kit NG to LP	EA
308-0048	Extension knob - Off / Pilot / On (2.5")	EA
308-0049	Extension knob - High / Low (2.5")	EA
827-0000	Complete Replacement Door. Includes glass, gasket and door frame	EA

POSTAGE

CUT ALONG LINE

WARRANTY REGISTRATION

ARCHGARD INDUSTRIES LTD.
7116 BEATTY DRIVE
MISSION, B.C. CANADA
V2V 6B4

FOLD DOWN AT LINE

CUT ALONG LINE

FOLD DOWN AT LINE & TAPE CLOSED

Model #: **27-DVIM22** Serial #: _____ Date Installed: _____ / _____ /

mm

dd

yyyy

Name: _____ Address: _____

City: _____ State/Prov: _____ ZIP: _____ Phone: (_____) -

Dealer's Name & Address: _____

City: _____ State/Prov: _____ ZIP: _____ Phone: (_____) -

Installer's Name & Address: _____

City: _____ State/Prov: _____ ZIP: _____ Phone: (_____) -

Why did you choose this product? _____

Thank you for purchasing our product and filling out this warranty card.

CUT ALONG LINE

ARCHGARD INDUSTRIES LTD.

7116 BEATTY DRIVE
MISSION, B.C. V2V 6B4
CANADA

WEBSITE: WWW.ARCHGARD.COM